

Water-Data Report 2008

08094800 North Bosque River at Hico, TX

Middle Brazos-Bosque Basin
North Bosque Subbasin

LOCATION.--Lat 31°58'35", long 98°01'57" referenced to North American Datum of 1927, Hamilton County, TX, Hydrologic Unit 12060204, on right bank at downstream side of bridge in Hico City Park, 700 ft downstream of U.S. Highway 281, 2.7 mi downstream from Gilmore Creek, 4.9 mi upstream from Honey Creek, and 92.3 mi upstream from mouth.

DRAINAGE AREA.--359 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1962 to Sept. 1998 (daily mean discharge), Oct. 1998 to current year (peaks above base discharge). Water-quality records: Chemical data: Sept. 1991 to Mar. 1994. Biochemical data: Sept. 1991 to Mar. 1994

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 977.46 ft above NGVD of 1929. Prior to Jan. 20, 2000, datum was 982.46 ft above NGVD of 1929. Prior to Aug. 9, 2006, water-stage recorder located 700 ft upstream on downstream left bank of U.S. Highway 281. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage, at least 10% of contributing drainage area has been regulated. At times flow is affected by discharge from floodwater-retarding structures controlling runoff from 202 mi² in the North Bosque River and Green Creek drainage basins. The city of Stephenville discharges wastewater effluent into the river above this station. No known diversions.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--36 years (water years 1963-98), 68.6 ft³/s (49,710 acre-ft/year).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s Dec. 20, 1991 (gage height, 23.27 ft).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, 27.6 ft May 23, 1952, from floodmarks (discharge, 87,800 ft³/s, by contracted-opening measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,720 ft³/s, Apr. 24, gage height, 15.47 ft.